

FIG. 1

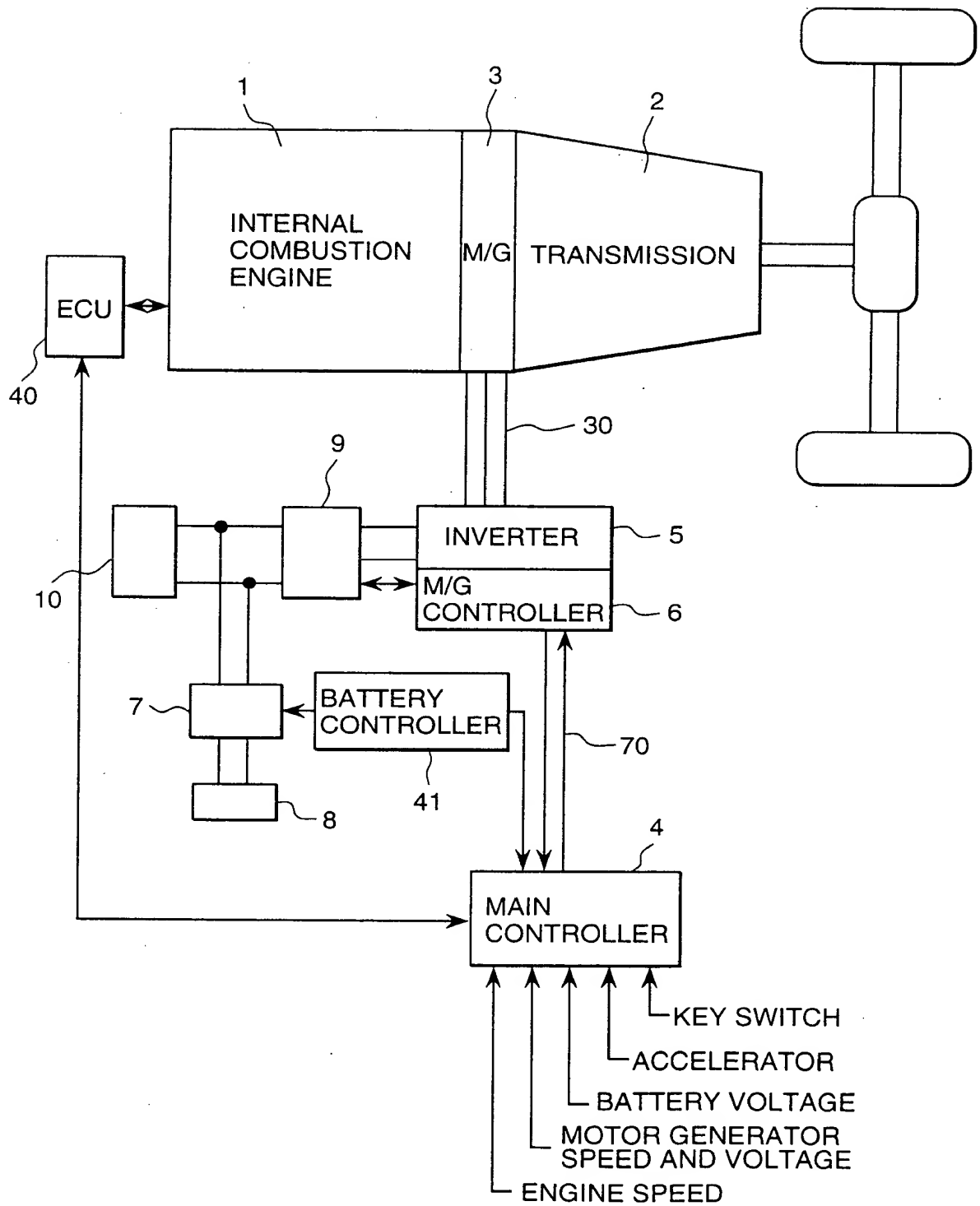


FIG. 2

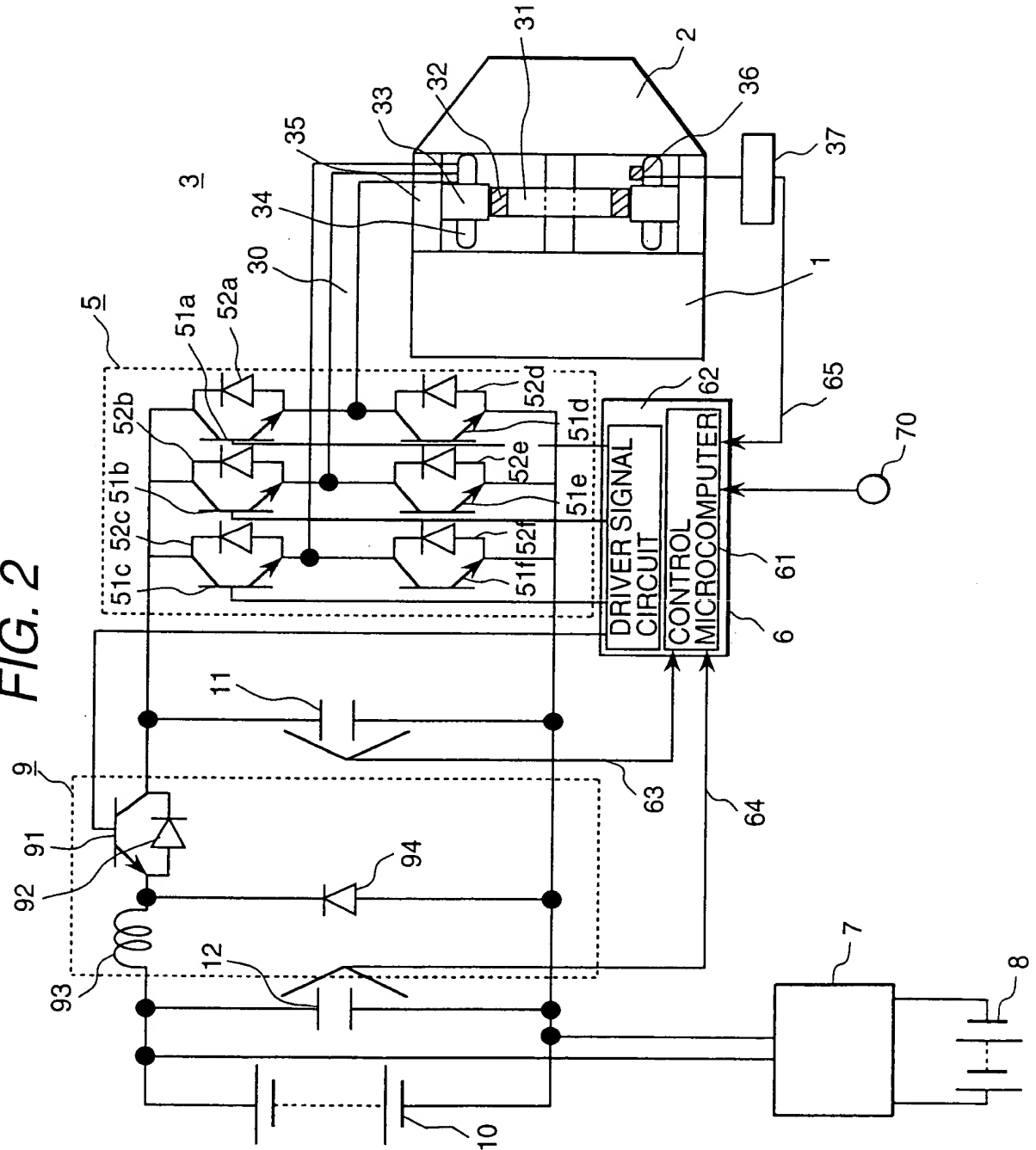


FIG. 3

OPERATION MODE	START OF INTERNAL COMBUSTION ENGINE	TORQUE ASSIST FOR INTERNAL COMBUSTION ENGINE	POWER GENERATION
CONTROL	(STEP-UP CHOPPER)+ STRONG MAGNETIC FIELD	(STEP-UP CHOPPER)+ STRONG MAGNETIC FIELD WEAK MAGNETIC FIELD	STEP-DOWN CHOPPER+ WEAK MAGNETIC FIELD

FIG. 5

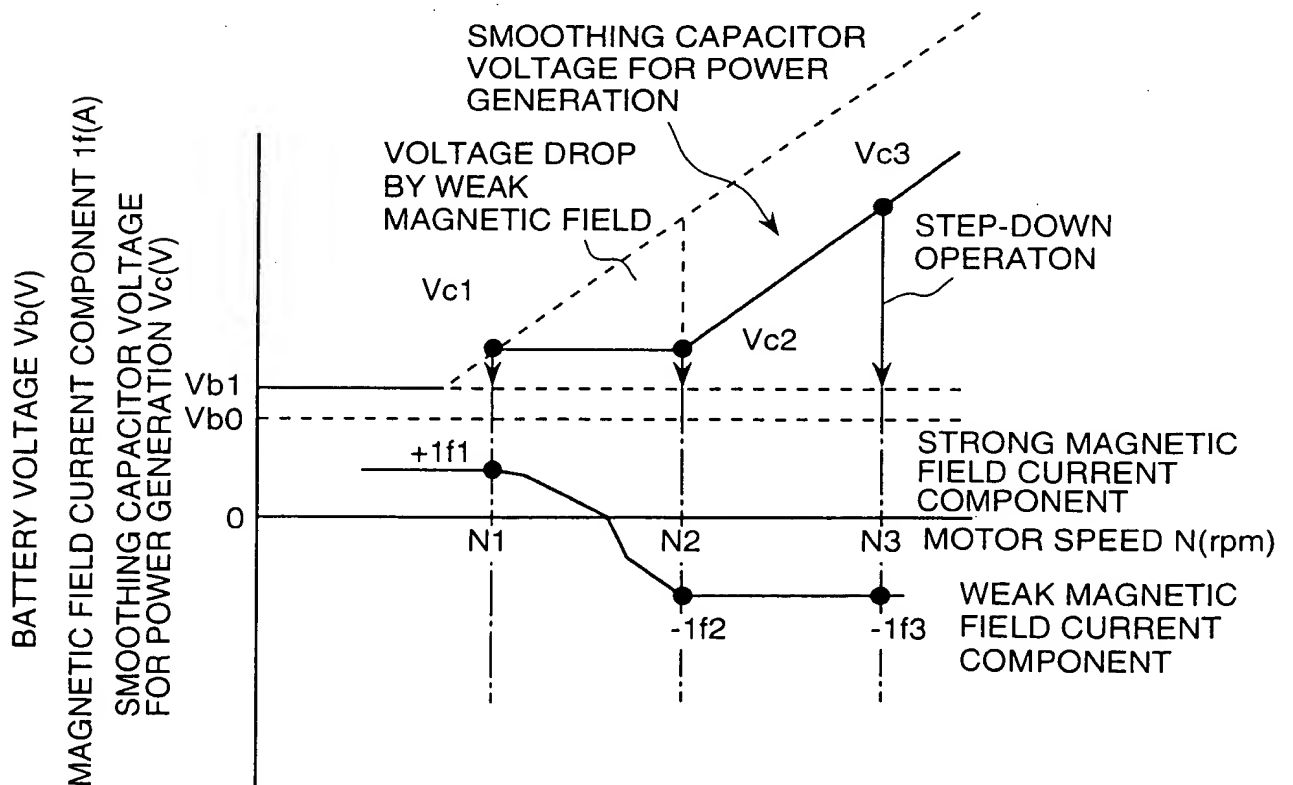
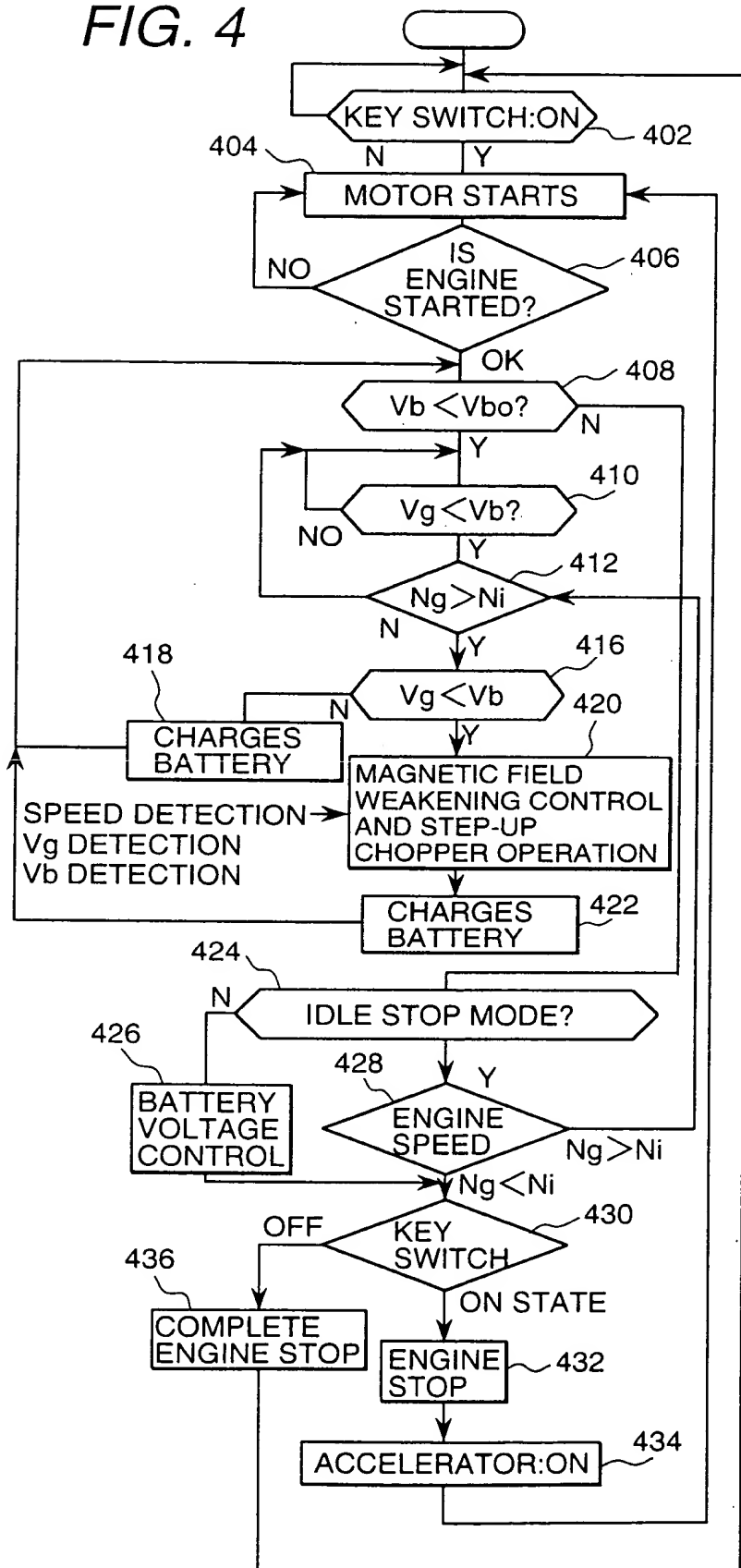


FIG. 4



ENGINE SPEED(N_g)
 IDLING SPEED(N_i)
 Vg:POWER GENERATION
 VOLTAGE
 Vb:BATTERY CHARGING
 VOLTAGE

FIG. 6

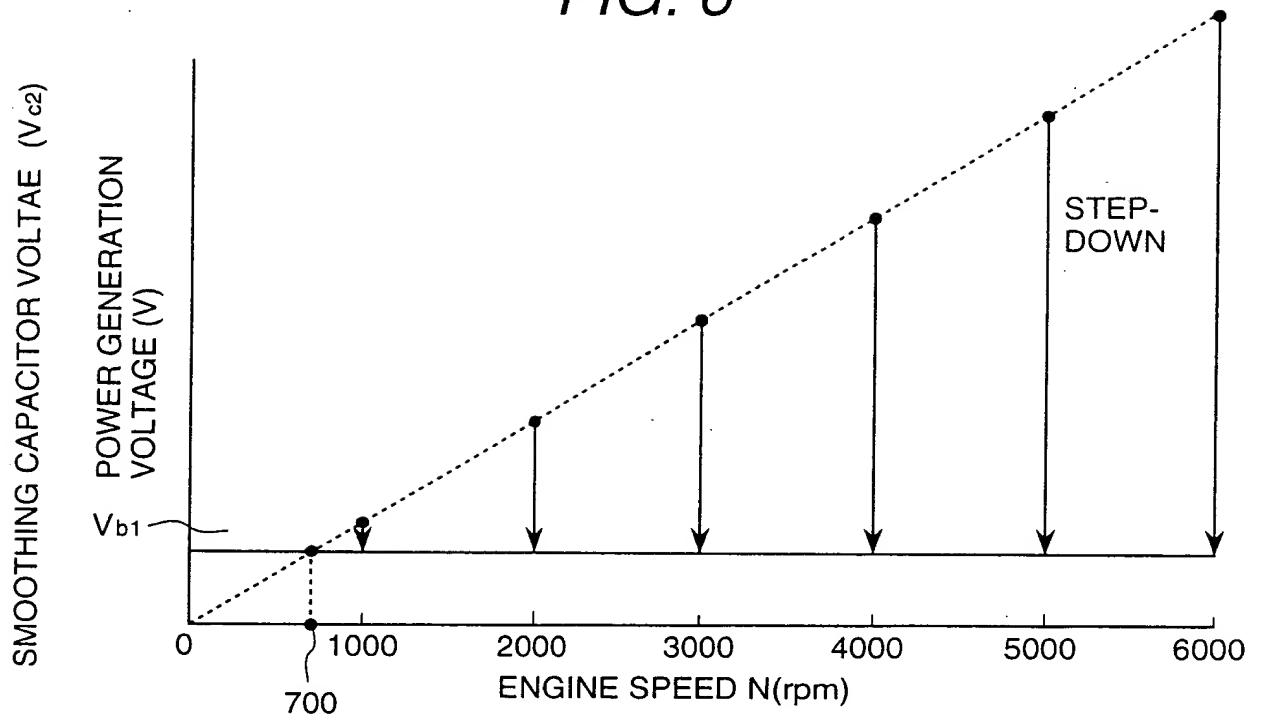


FIG. 7

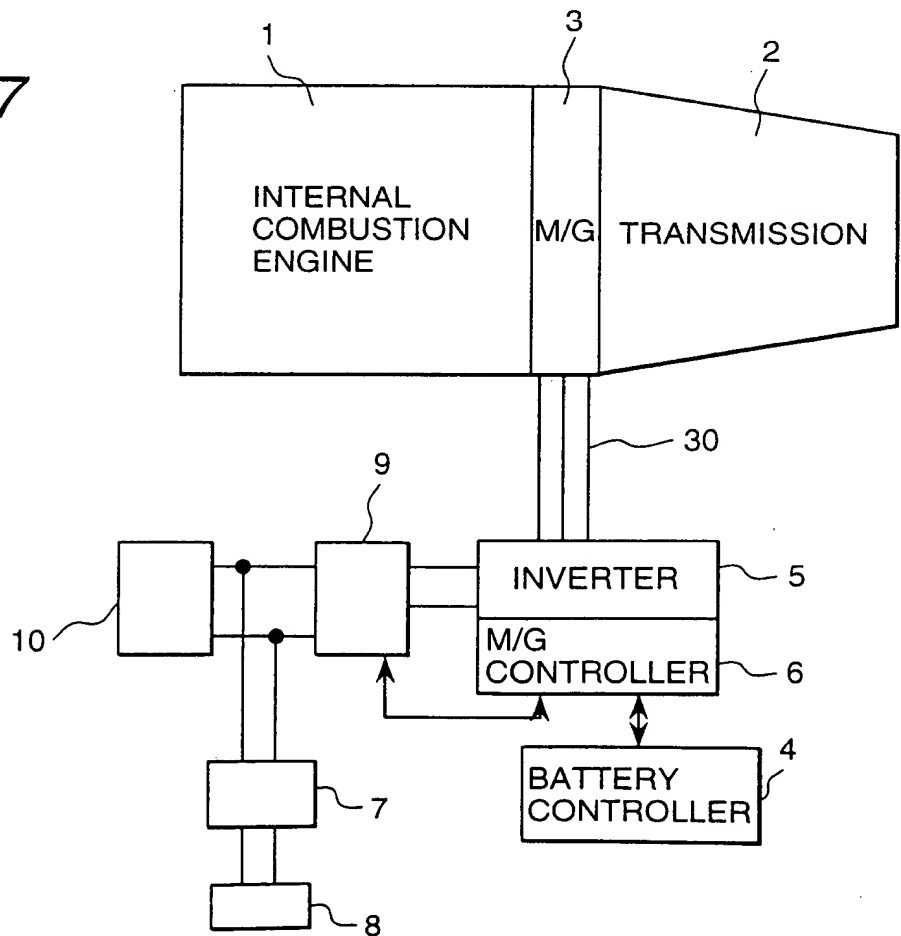


FIG. 8

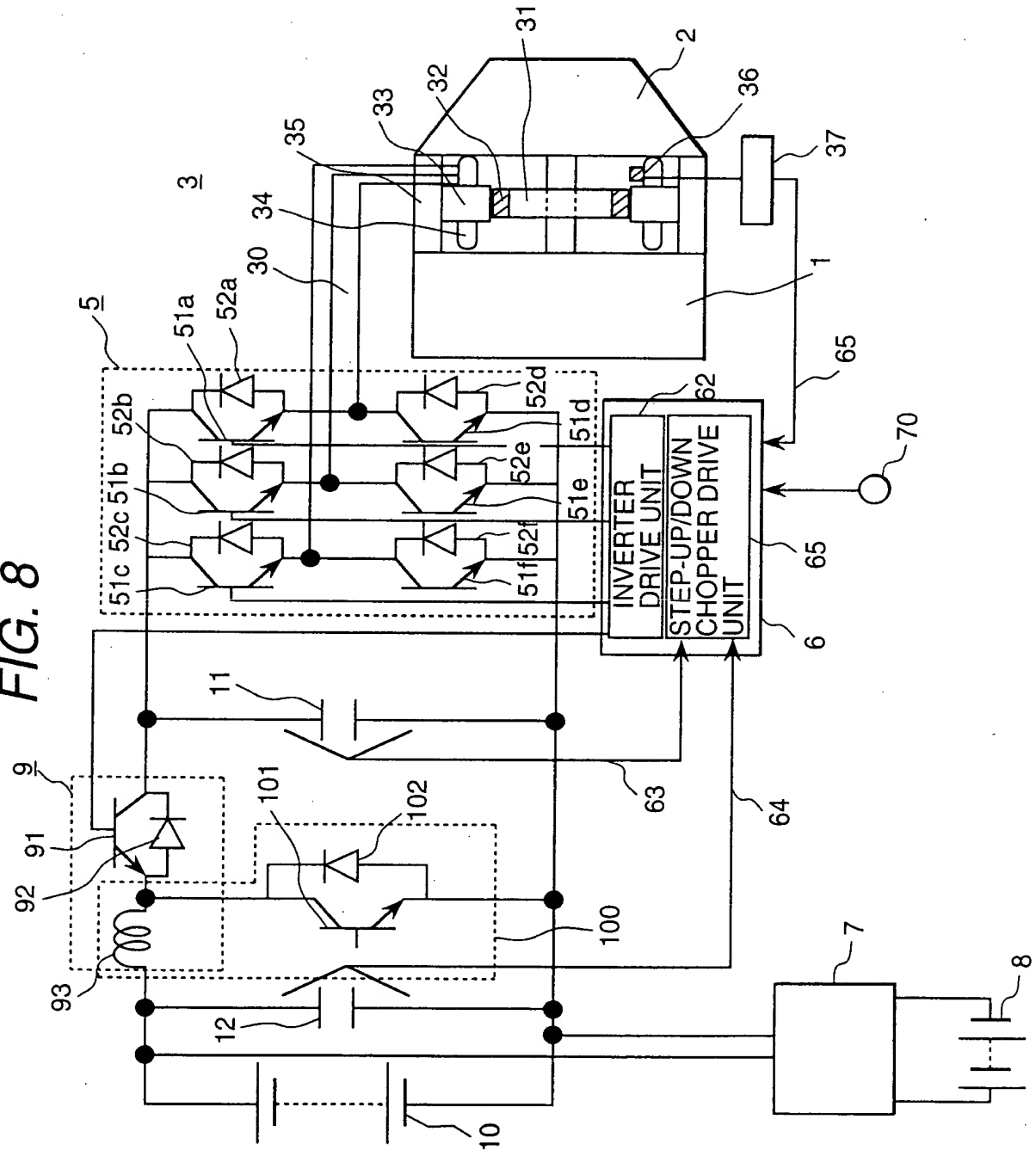


FIG. 9

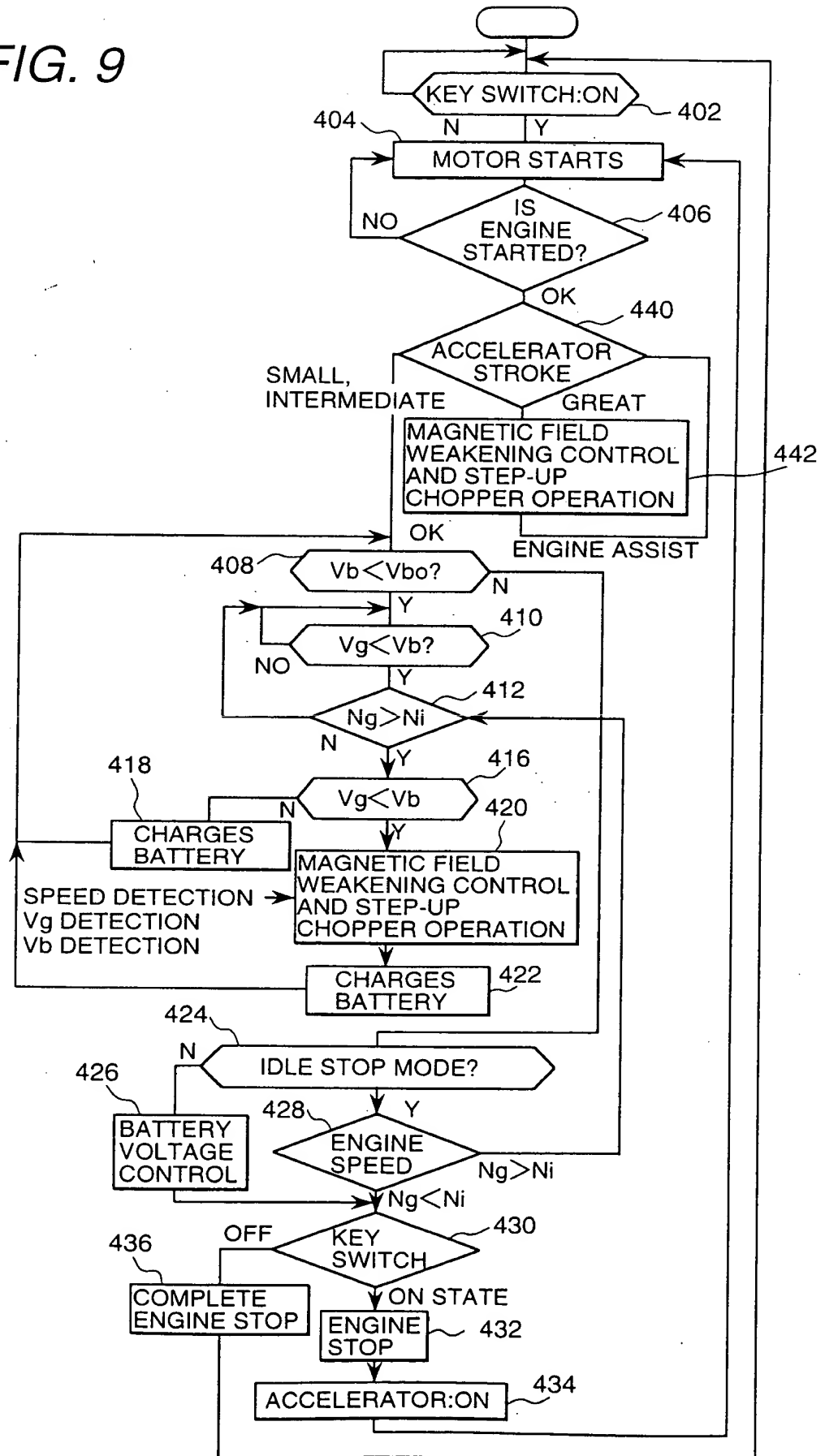


FIG. 10

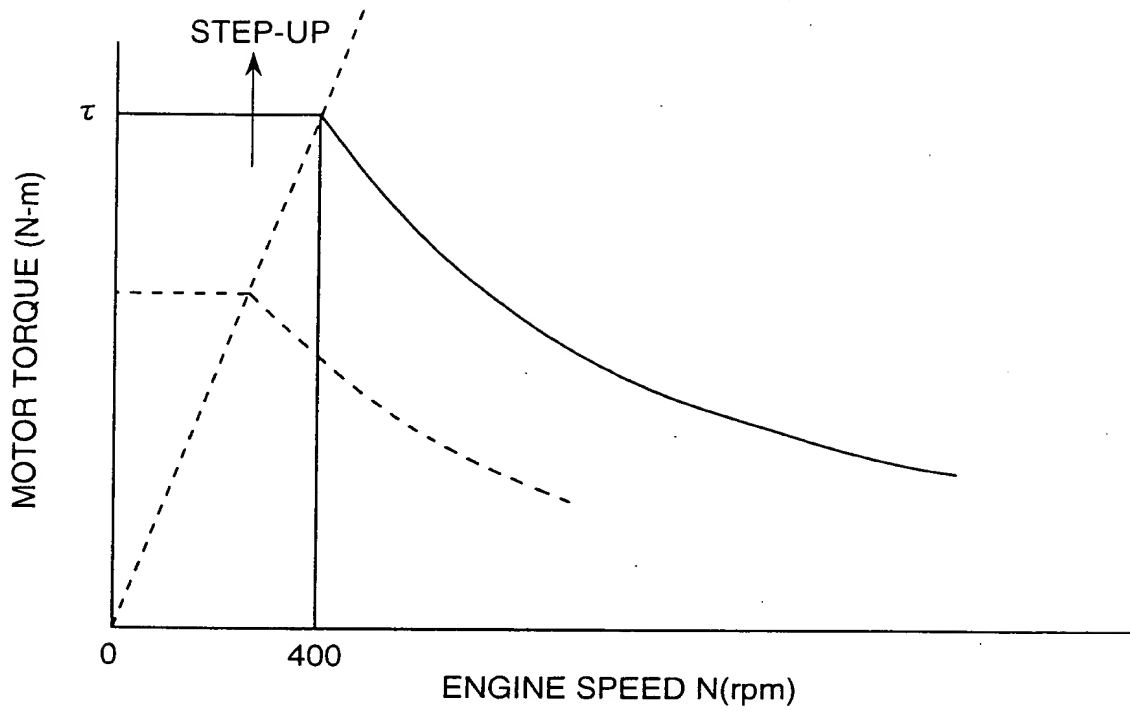


FIG. 11

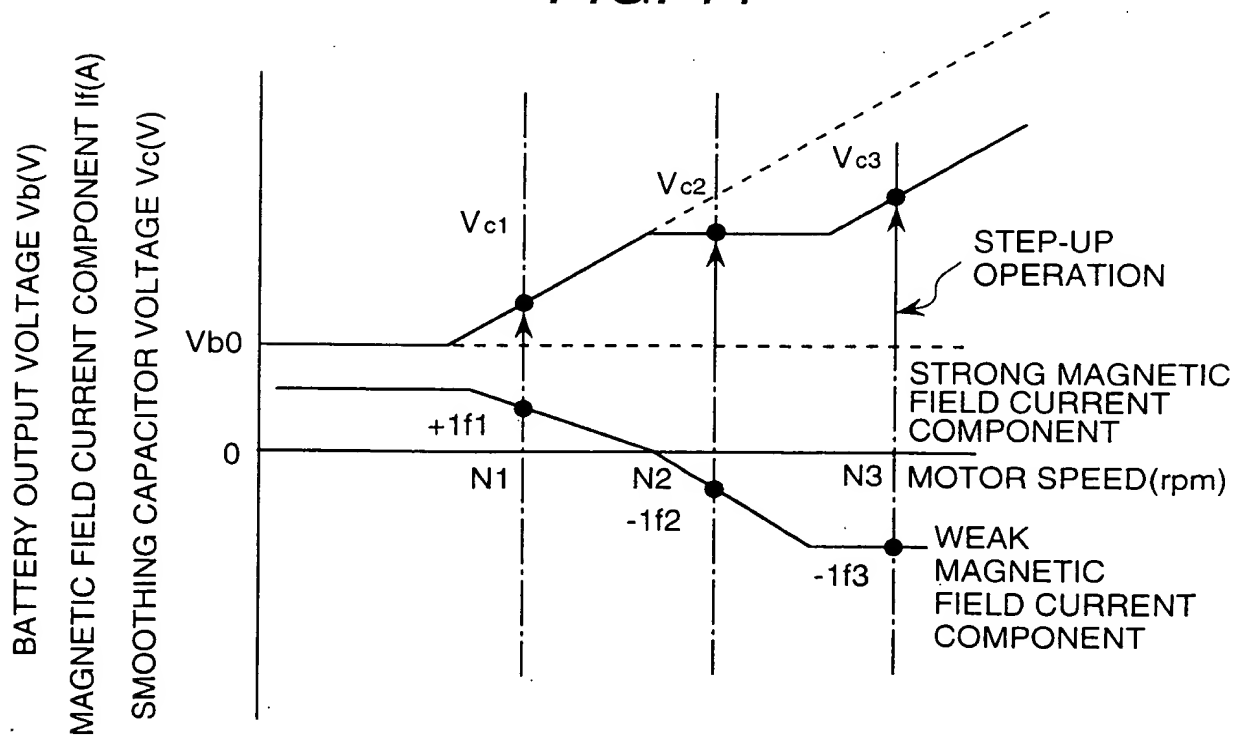


FIG. 12(a)

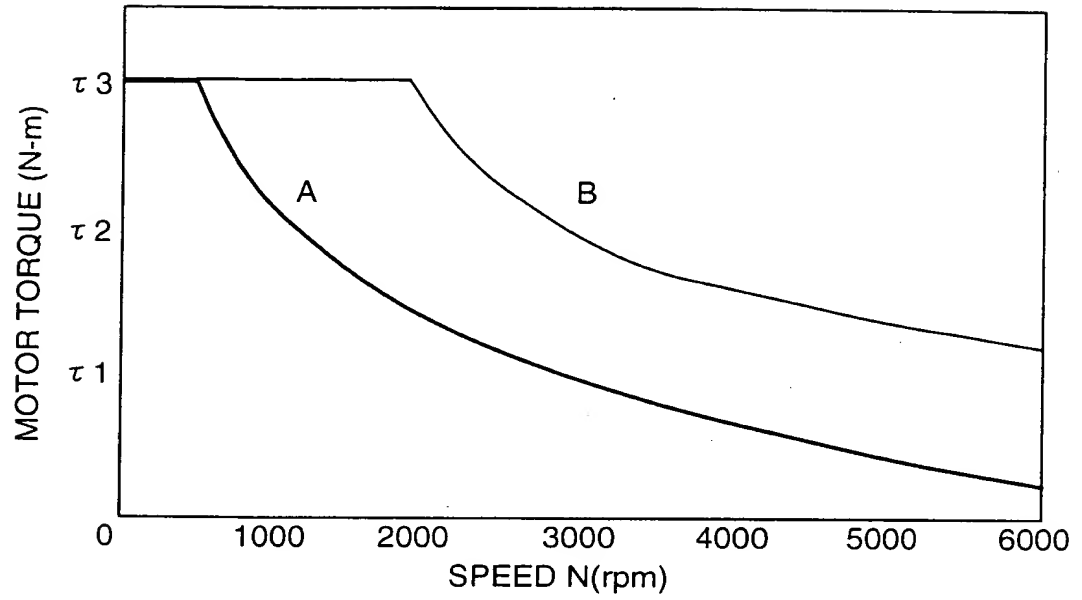


FIG. 12(b)

